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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/500,814	07/07/2004	Lars Lidgren	CU-3809 RJS	7178
26530 LADAS & PAR	7590 09/18/2008 RRY LLP	8	EXAMINER	
	ICHIGAN AVENUE		CATTUNGAL, SANJAY	
SUITE 1600 CHICAGO, IL	60604		ART UNIT	PAPER NUMBER
			3768	
			MAIL DATE	DELIVERY MODE
			09/18/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary		Applic	ation No.	Applicant(s)	Applicant(s)			
		10/500	١,814	LIDGREN ET AL.	LIDGREN ET AL.			
		Exami	ner	Art Unit				
		SANJA	Y CATTUNGAL	3768				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply								
WHICHEVER IS - Extensions of time ma after SIX (6) MONTH: - If NO period for reply - Failure to reply within Any reply received by	LONGER, FROM THE N by be available under the provision from the mailing date of this com	MAILING DATE OF s of 37 CFR 1.136(a). In no munication. tatutory period will apply an y will, by statute, cause the	THIS COMMUNIO be event, however, may a red d will expire SIX (6) MON application to become AE	reply be timely filed NTHS from the mailing date of this of BANDONED (35 U.S.C. § 133).				
Status								
2a)⊠ This action 3)□ Since this a		2b)∏ This action in for allowance exce	 s non-final. ept for formal matt	ters, prosecution as to th	e merits is			
Disposition of Clain	าร							
4a) Of the a 5) ☐ Claim(s) 6) ☑ Claim(s) 1- 7) ☐ Claim(s) 8) ☐ Claim(s) Application Papers 9) ☐ The specific 10) ☑ The drawing	29 is/are pending in the bove claim(s) is/a is/a is/are allowed. 29 is/are rejected is/are objected to are subject to restriction is objected to by the g(s) filed on 07 July 2004	are withdrawn from ction and/or election e Examiner. ∮ is/are: a)⊠ accep	n requirement. oted or b)⊡ objed	-				
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.								
Priority under 35 U.	S.C. § 119							
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 								
	on's Patent Drawing Review (ure Statement(s) (PTO/SB/08)	PTO-948)	Paper No(Summary (PTO-413) s)/Mail Date nformal Patent Application 				

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DETAILED ACTION

Response to Arguments

1. Applicant's arguments with respect to claims 1-29 have been considered but are moot in view of the new ground(s) of rejection.

Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 1-5 and 20-29, are rejected under 35 U.S.C. 103(a) as being unpatentable over European Patent No. EP 0 668 052 B1 to Fujio et al. in view of U. S. Patent No. 6,599,288 to Maguire et al.
- 4. Regarding Claim 1 and 20-29, Fujio teaches a device for mini-invasive ultrasound treatment of an object, wherein at least one therapeutic ultrasound transducer (Fig. 3 element 20a) is arranged for treatment of the object (Fig. 3 element 54) by generating an ultrasonic field (Fig. 3 and Abstract), the temperature focus of which is located in the object for heating thereof (Abstract and Fig. 3); wherein the therapeutic ultrasound transducer comprises a probe characterized in that said transmitter element (Fig. 3 element 22a) is arranged in a rear portion (Fig. 3 element 22a) and is configured to be thermally insulating (Fig. 3 element 52), whereby the transmitter element does not heat or substantially not heat the front portion during operation. (Fig. 3 element 52)

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Fujio does not expressly teach the use of a ultrasonic probe for minimally invasive procedures, for ablating tissues inside the body.

Maguire disclose the use of a ultrasonic probe for treatment of tissues inside the body. (Abstract)

It would have been obvious to one of ordinary skill in the art at the time of the invention to modify Fujio with a setup such that the ultrasonic probe is used for minimally invasive procedures for ablating tissues inside the body as taught by Maguire since such a setup would result in the device being capable of minimally invasive procedures and increase the range of use for the device.

- 5. Regarding **Claims 2 and 5**, Fujio teaches the use of a focusing device for focusing the ultrasound generated by the transmitter element. (Fig. 3 element 20a)
- 6. Regarding **Claims 3 and 4**, Fujio teaches focusing ultrasound waves in the tissue and hence it would be inherent that the focus range falls withing 0.5 20 centimeters. (Fig. 3)
- 7. Claims 6-10 are rejected under 35 U.S.C. 103(a) as being unpatentable over European Patent No. EP 0 668 052 B1 to Fujio et al. in view of U. S. Patent No. 6,599,288 to Maguire et al. further in view of U. S. Patent No. 5,327,890 to Matura et al.
- 8. Regarding **Claims 6-10**, Fujio in view of Maguire teach all of the above claimed limitations but do not expressly teach the use of an optical navigation device using a X-ray device and camera.

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Matura teaches the use of an optical navigation device using a X-ray device and camera. (Abstract and Fig. 1)

It would have been obvious to one of ordinary skill in the art at the time of the invention to modify Fujio and Magure with an optical navigation device as taught by Matura since such a setup would result in a location system which would precisely locate the tissue/target region to be treated/ablated.

- 9. Claims 11-19 are rejected under 35 U.S.C. 103(a) as being unpatentable over European Patent No. EP 0 668 052 B1 to Fujio et al. in view of U. S. Patent No. 6,599,288 to Maguire et al. in view of U. S. Patent No. 5,327,890 to Matura et al. further in view of U. S. Publication No. 2005/0020918 to Wilk et al.
- 10. Regarding **claims 11-19** Fujio, Maguire, and Matura teach all of the above claimed limitations but do not expressly teach the use of a CT Scan system for optical navigation.

Wilk teaches the use of a CT scan system for optical navigation. (Abstract)

It would have been obvious to one of ordinary skill in the art at the time of the invention to modify Fujio, Maguire, and Matura with an CT navigation device as taught by Wilk since such a setup would result in a location system which would precisely locate the tissue/target region to be treated/ablated as the precision and quality of images in CT is much more greater than that of x-ray.

11. Regarding Claim 16, use of metallic tantalum balls are well known within the X-ray arts and it would have been obvious to use them to mark or reference.

Conclusion

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12. Applicant's submission of an information disclosure statement under 37 CFR 1.97(c) with the fee set forth in 37 CFR 1.17(p) on 03/18/08 prompted the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS**MADE FINAL. See MPEP § 609.04(b). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

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- 13. A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.
- 14. Any inquiry concerning this communication or earlier communications from the examiner should be directed to SANJAY CATTUNGAL whose telephone number is (571)272-1306. The examiner can normally be reached on 9:30 5:00 pm.
- 15. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Brian Casler can be reached on (571)272-4956. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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16. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Brian L Casler/ Supervisory Patent Examiner, Art Unit 3737

SPC